ORDER NO.MAES0306003C2

Service Manual

Vacuum Cleaner

MC-E8001 / MC-E8003

SPECIFICATIONS

Model	MC-E8001	MC-E8003
Power source	AC230-240V~50Hz	AC230-240V~50Hz
Input power (max.)	1700W	1800W
Water lift	25 kPa	26 kPa
Cord length	6.5 m	6.5 m
Radius of operation	9.2 m	9.2 m
Net weight	5.5 kg	5.5 kg
Dimensions (L x W x H)mm	420 x 300 x 290	420 x 300 x 290
Attachments: Floor nozzle	*	*
Telescopic wand	*	*
Dusting brush	*	*
Crevice nozzle	*	*

Specifications are subject to change without notice for further improvement.

⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public.
It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

Panasonic

1. PICTORIAL WIRING DIAGRAM

2. SCHEMATIC DIAGRAM

3. REPLACEMENT OF MAIN PARTS

IMPORTANT: Before replacing any part always

DISCONNECT THE CLEANER FROM THE ELECTRICITY SUPPLY.

3.1. MOTOR

1. Lift up dust compartment and take it out. (Fig.1)

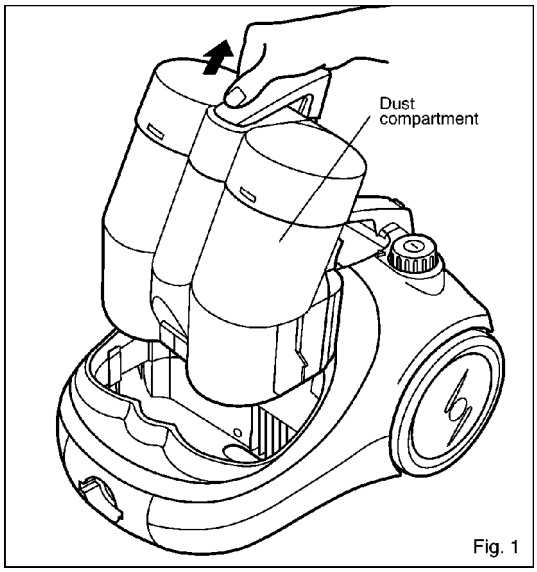


Fig. 1

2. Remove screws from upper body supplement and handle and take them out. (Fig.2)

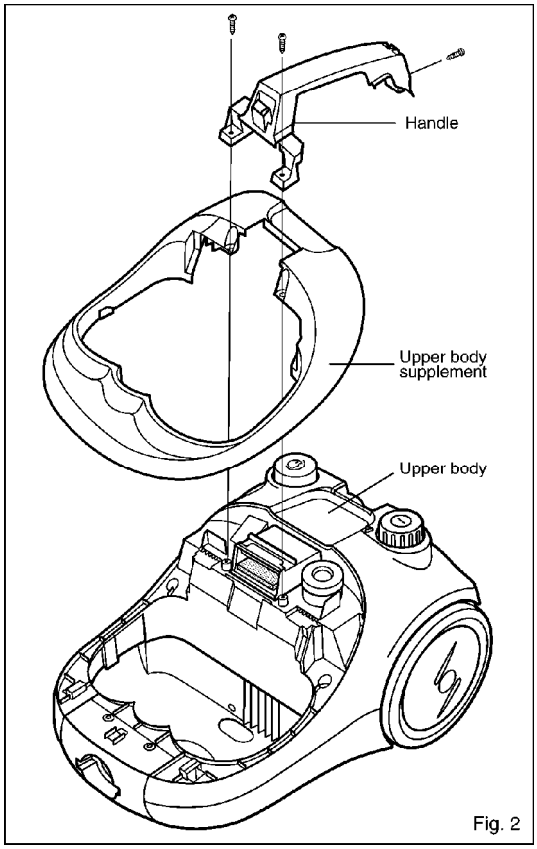


Fig. 2

3. **Before removing the upper body, take out the switch pedal with the help of a flat-head screwdriver. (Fig. 3)**

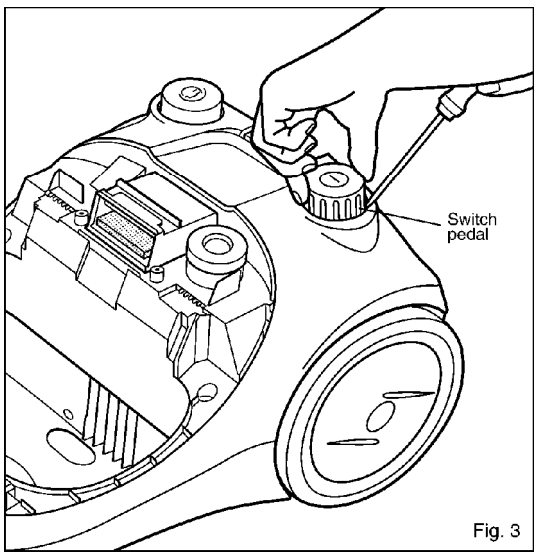


Fig. 3

Important: To remove the fixing claws of the pedal, make sure it is placed in the indicated position (see fig.3).

4. **Remove screws from upper body and take out frontal cover and upper body. (Fig.4)**

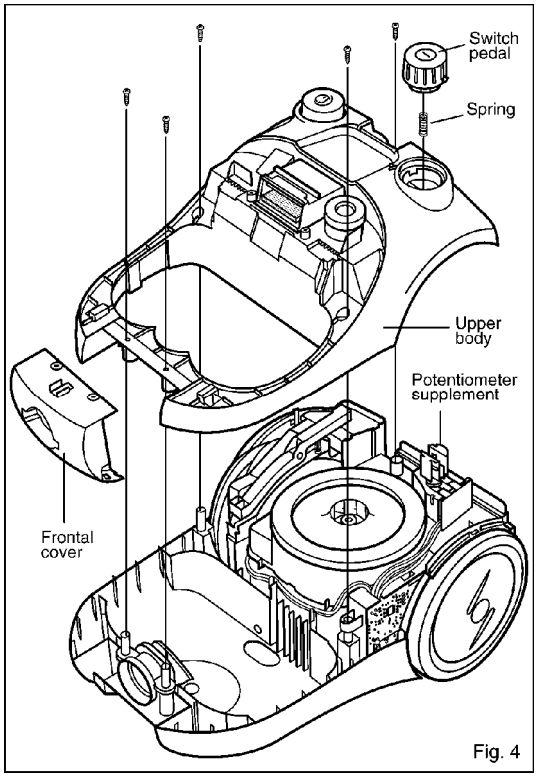


Fig. 4

5. Lift up cord reel unit and remove the two lead wires (provided with quick-connect terminal) from the contact springs. (Fig. 5)

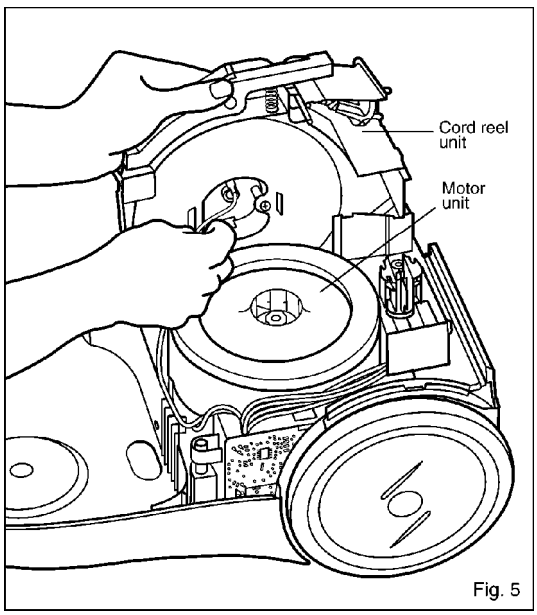


Fig. 5

6. Take out motor unit and remove motor cover. (Fig.6)

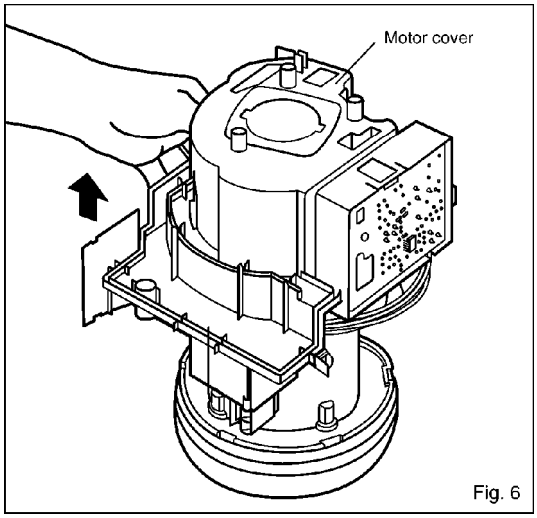


Fig. 6

7. Disconnect the two lead wires (provided with quick-connect terminals) from the motor tabs. (Fig.7)

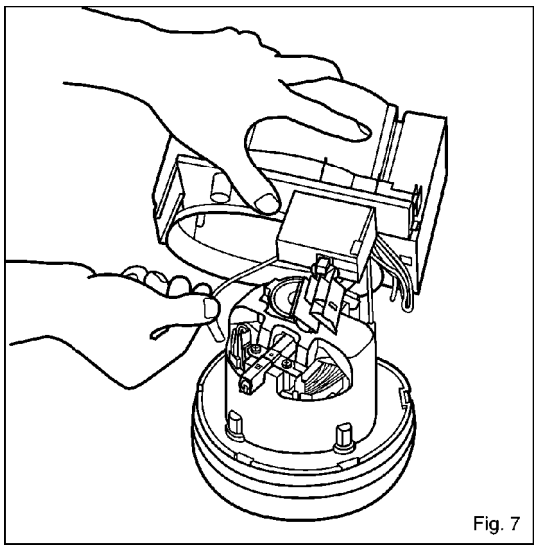


Fig. 7

8. Remove from the motor front / rear motor support and replace with a new one. (Fig.8)

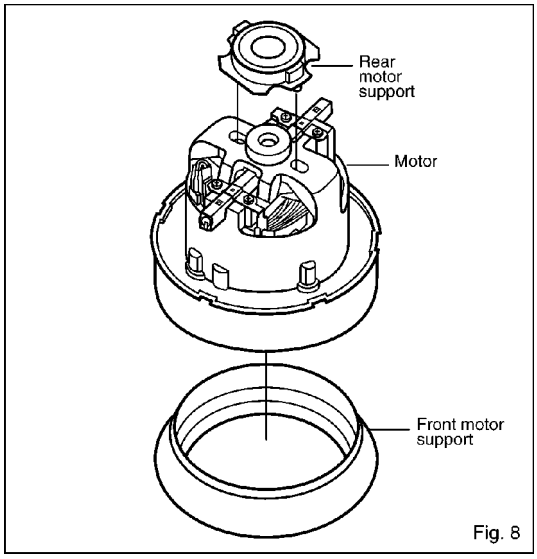


Fig. 8

9. Reassemble front / rear motor support and connect the two lead wires to the motor tabs. Place the motor cover and reinstall the motor unit into the lower body.
10. Connect the lead wires according to the schematic diagram and reassemble the remaining parts in the reverse order.
    Note: Make sure the lead wires are correctly positioned to avoid pinching them between parts.
    Important: When reassembling the switch pedal, make sure the potentiometer supplement and pedal are placed as indicated in figure 4.

3.2. CARBON BRUSHES

Note: Replace both carbon brushes at the same time.

1. Take out motor unit and remove motor cover as explained previously in paragraph 3.1 Motor, points 1-6.
2. Disconnect lead wires (provided with quick-connect terminal) from the motor tabs.
3. Remove the two screws from the carbon brush holder and take it out. (Fig.9)

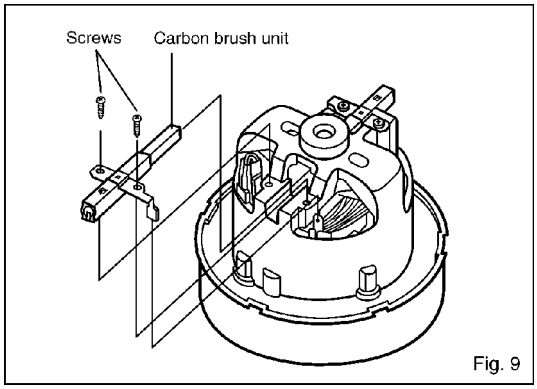


Fig. 9

4. **Replace the carbon brush unit with a new one and reinstall it refastening with the screw.**
5. **Connect the lead wires according to the schematic diagram and reassemble the motor unit.**
6. **Re-install motor unit, cord reel ass'y into their lodging and reassemble the remaining parts in the reverse order.**

3.3. THERMAL CUT-OUT

1. **Take out motor unit and remove motor cover as explained previously in paragraph 3.1 Motor, points 1-6.**
2. **Disconnect lead wires (provided with quick-connect terminal) from the motor tabs.**
3. **Remove thermal cut-out (provided with quick-connect terminals) from the motor tabs. (Fig.10)**

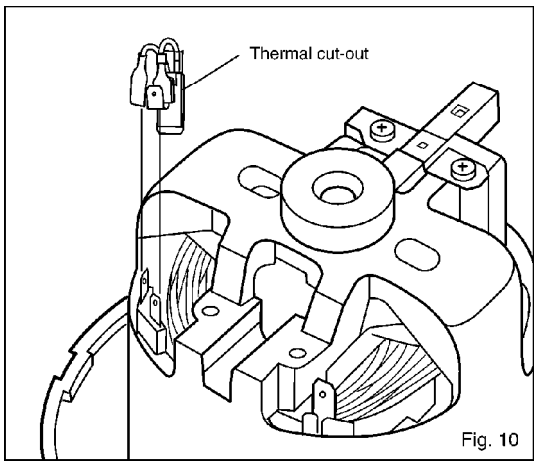


Fig. 10

4. **Replace thermal cut-out with a new one and re-install.**
5. **Connect the lead wires according to the schematic diagram and reassemble motor unit and remaining parts in the reverse order.**

3.4. CORD REEL UNIT

1. Remove upper body and take out cord reel ass`y as explained previously in paragraph 3.1 Motor, points 1-5.
2. Press the brake lever and unwind the power supply cord two times to release the cord reel spring efficiency. (Fig.11)

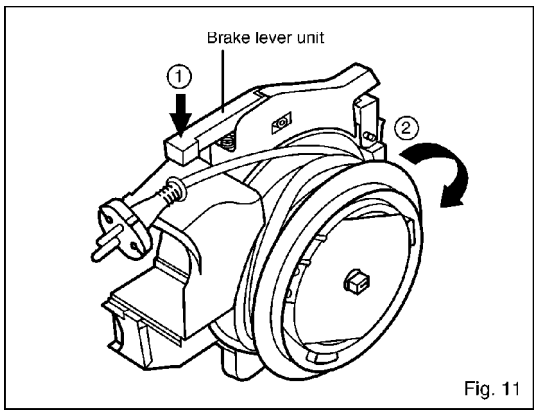


Fig. 11

3. Detach cord reel unit and cord reel support by removing the screw. (Fig.12)

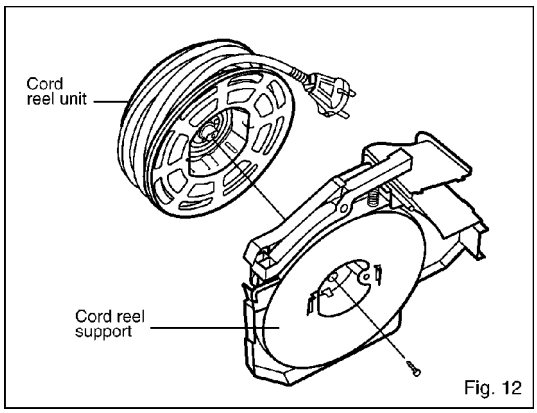


Fig. 12

4. Replace the cord reel unit with a new one and reassemble with the cord reel support refastening the screw.
   Note: Wind up the power supply cord 2 extra times, as indicated on the spring plate, to maintain the spring efficiency.
5. Connect the lead wires according to the schematic diagram.
6. Reinstall cord reel ass'y into place and reassemble the remaining parts in the reverse order.

3.5. POWER SUPPLY CORD

1. To replace the power supply cord, take out cord reel ass'y and

disassemble it as explained previously in paragraph 3.4 Cord reel unit, points 1-3.

2. Unwind the power supply cord from the cord reel unit.
3. Press and release the stopper on the cord reel and lift the rail base by pushing the lower end. (Fig.13)

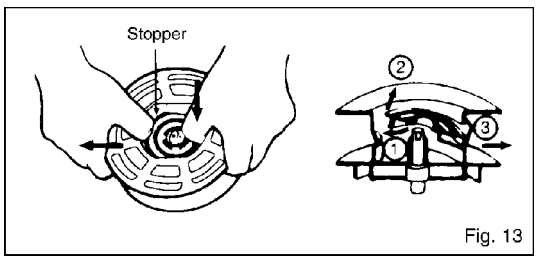


Fig. 13

4. Disconnect the power supply cord from the rail base and replace with a new one.
   Note: Observe the colour of the lead wires from the power supply cord before reinstalling the new one. (Fig.14)

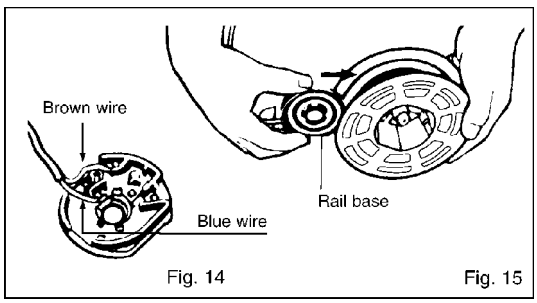


Fig. 14 Fig. 15

5. Insert the rail base through the cord reel slot. (Fig.15)
   Note: Put Vaseline on the rail base before assembling the cord reel support.
6. Wind up the power supply cord in the arrow direction as indicated on the spring plate.
7. Reassemble cord reel unit and cord reel support and refasten the screw.
   Note: Wind up the power supply cord 2 extra times to maintain spring efficiency.
8. Reinstall cord reel ass'y into place. Connect the lead wires according to the schematic diagram and reassemble upper body and remaining parts in the reverse order.

3.6. BRAKE LEVER UNIT

1. Remove upper body and cord reel assembly as explained previously in paragraph 3.1 Motor, points 1-5.

2. Remove the spring and brake lever unit from cord reel support and replace with a new one. (Fig.16)

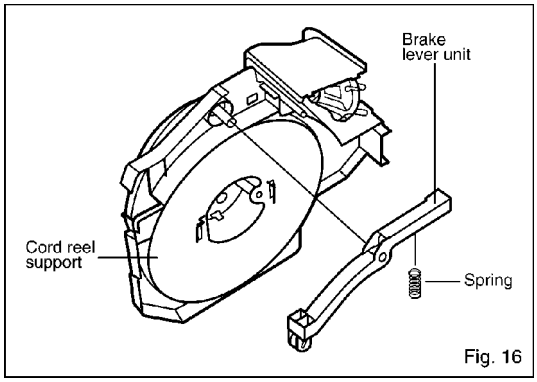


Fig. 16

3. Re-install the brake lever unit and spring and place cord reel unit into place.
4. Connect the lead wires according to the schematic diagram and reassemble upper body and remaining parts in the reverse order.

3.7. POWER CONTROL CIRCUIT

1. Remove upper body as explained previously in paragraph 3.1 Motor, points 1-4.
2. Remove connections from contact spring and take out motor unit.
3. Remove power control circuit from its support by releasing the fixing points. (Fig.17)

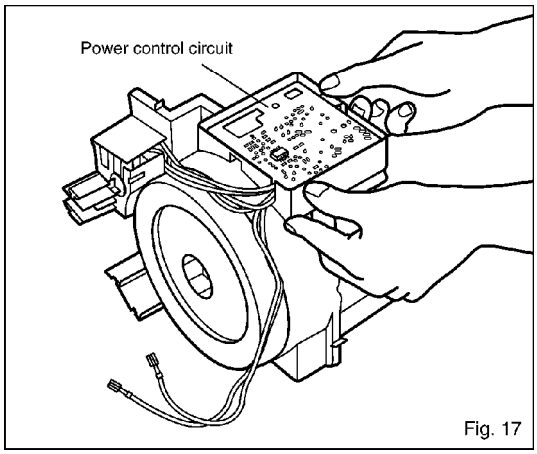


Fig. 17

4. Remove from PCB the two lead wires provided with quick-connect terminal. (Fig.18)

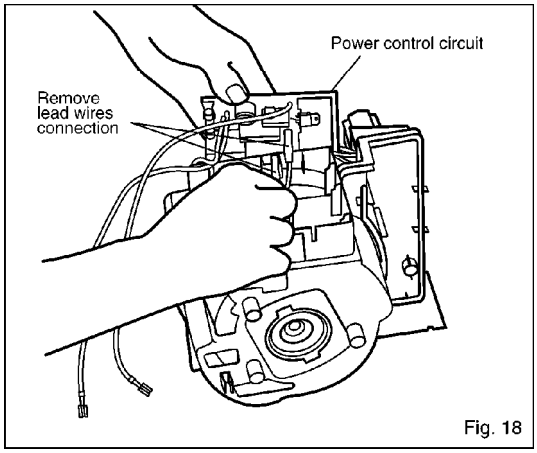


Fig. 18

5. Open the cover, remove the small PCB from its lodging and take out rotary potentiometer supplement. (Fig.19)

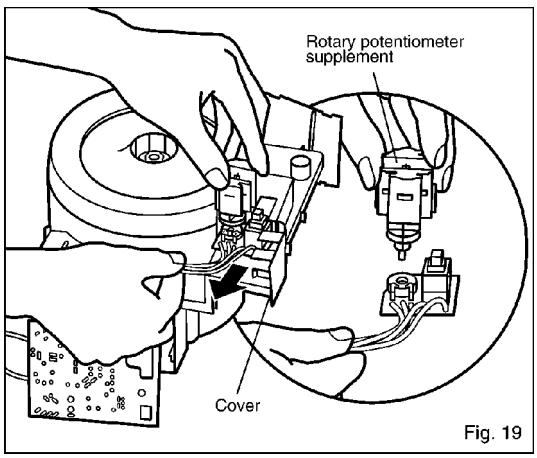


Fig. 19

6. Replace power control circuit with a new one and reassemble potentiometer supplement.

7. Connect the two lead wires (provided with quick-connect terminal) to the PCB tabs and reinstall power control circuit in its support. (Fig.20)

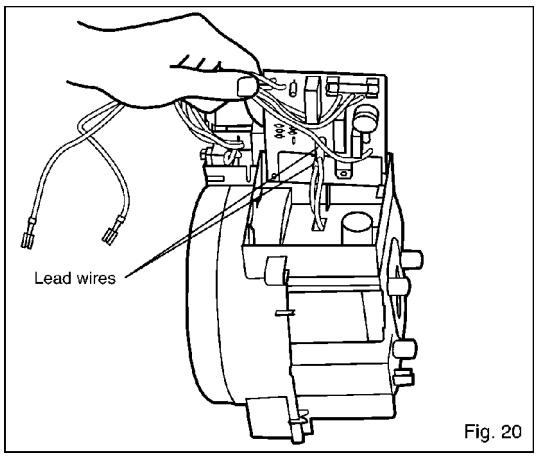


Fig. 20

Note: Before reinstalling the circuit, make sure the lead wires are correctly positioned in the cover slots.

8. Place back the motor unit. Connect the lead wires according to the schematic diagram and reassemble upper body and remaining parts in the reverse order.

3.8. FUSE (12A)

1. Remove upper body and release power control circuit from its support as explained previously in paragraph 3.7 Power control circuit, points 1-3.
2. Remove the fuse and replace with a new one. (Fig. 21)

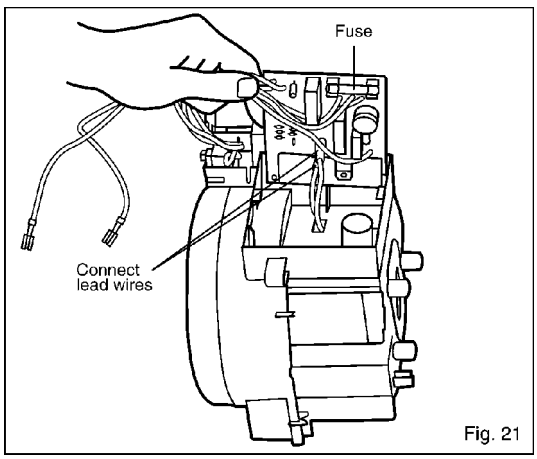


Fig. 21

3. Reinstall power control circuit in its support and reassemble upper body and remaining parts in the reverse order.

3.9. ON/OFF SWITCH

1. Remove upper body as explained previously in paragraph 3.1 Motor, point 1-4.
2. Open the cover to remove the ON/OFF Switch PCB. (Fig.22)

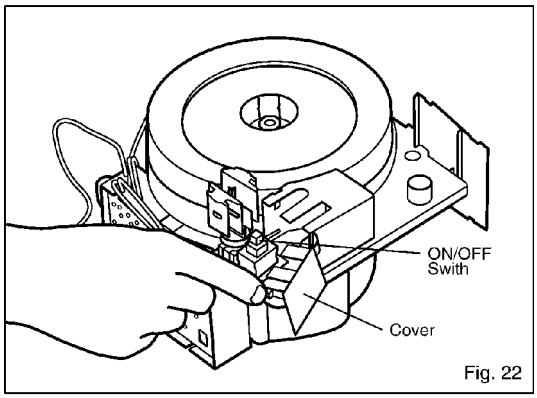


Fig. 22

3. Unsolder ON/OFF Switch terminal points from the PCB and replace with a new one. (Fig.23)

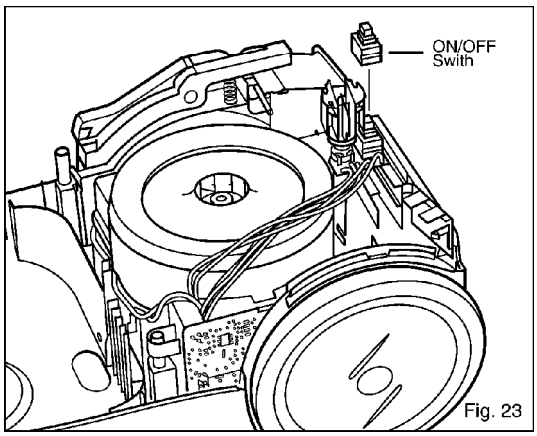


Fig. 23

4. Solder the new one and reinstall the PCB into its support.
   Note: Align the potentiometer supplement with the guides of the cover and re-install it.
5. Place the motor unit correctly and reassemble upper body and remaining parts in the reverse order.

3.10. ROTARY POTENTIOMETER

1. Remove upper body as explained previously in paragraph 3.1 Motor, point 1-4.
2. Open the cover to remove the rotary potentiometer PCB. (see figure 22)
3. Unsolder rotary potentiometer terminal points from the PCB and replace with a new one. (Fig. 24)

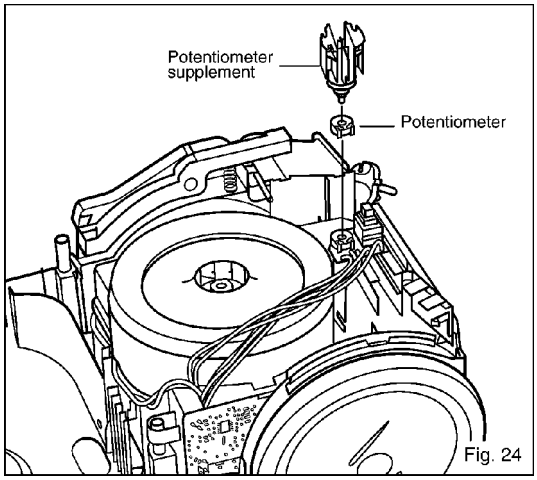
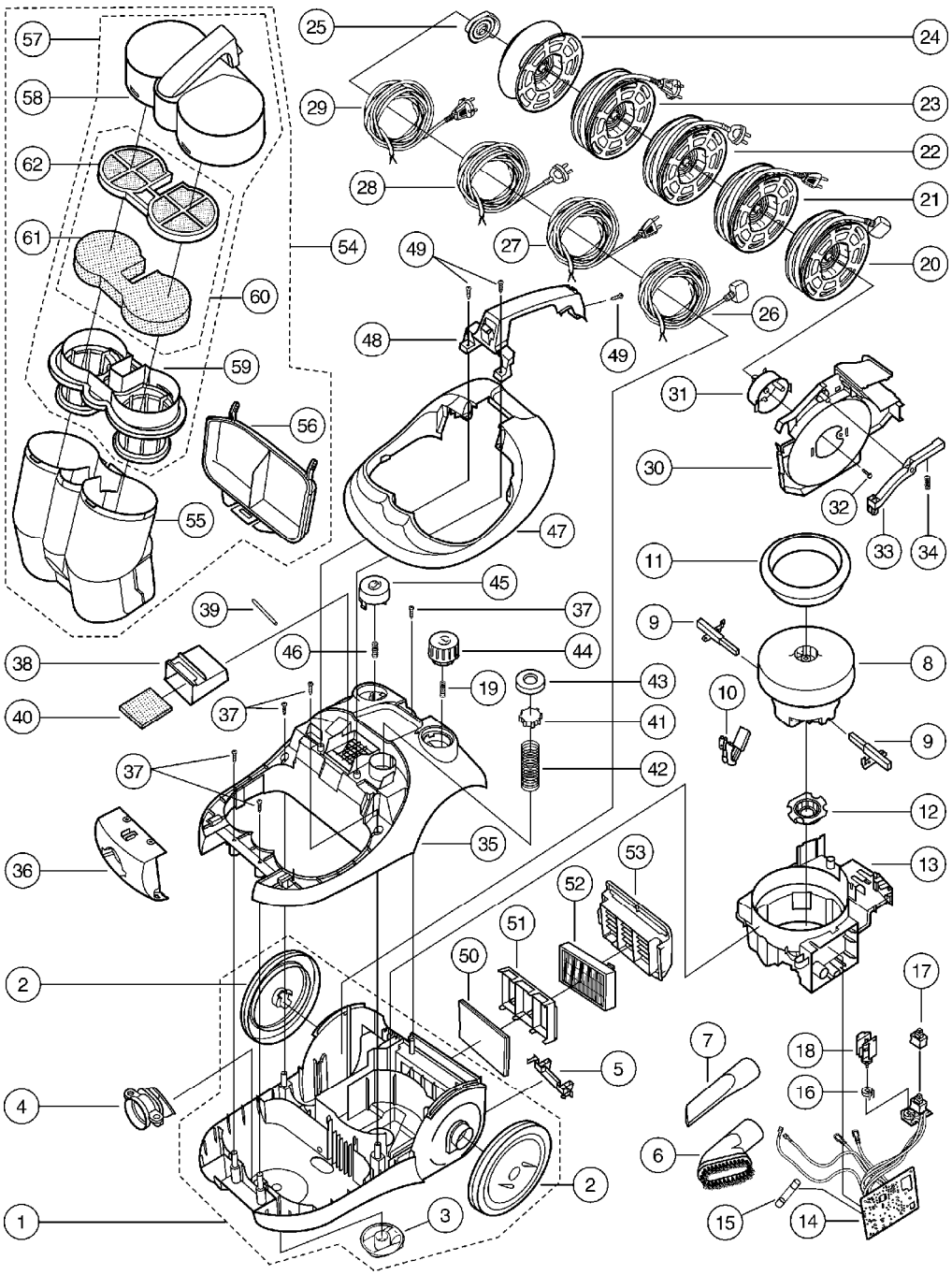


Fig. 24

4. **Solder the new one and reinstall the PCB into its support.**
   Note: Align the potentiometer supplement with the guides of the cover and re-install it.
5. **Place the motor unit correctly and reassemble upper body and remaining parts in the reverse order.**

4. EXPLODED VIEW (BODY UNIT)

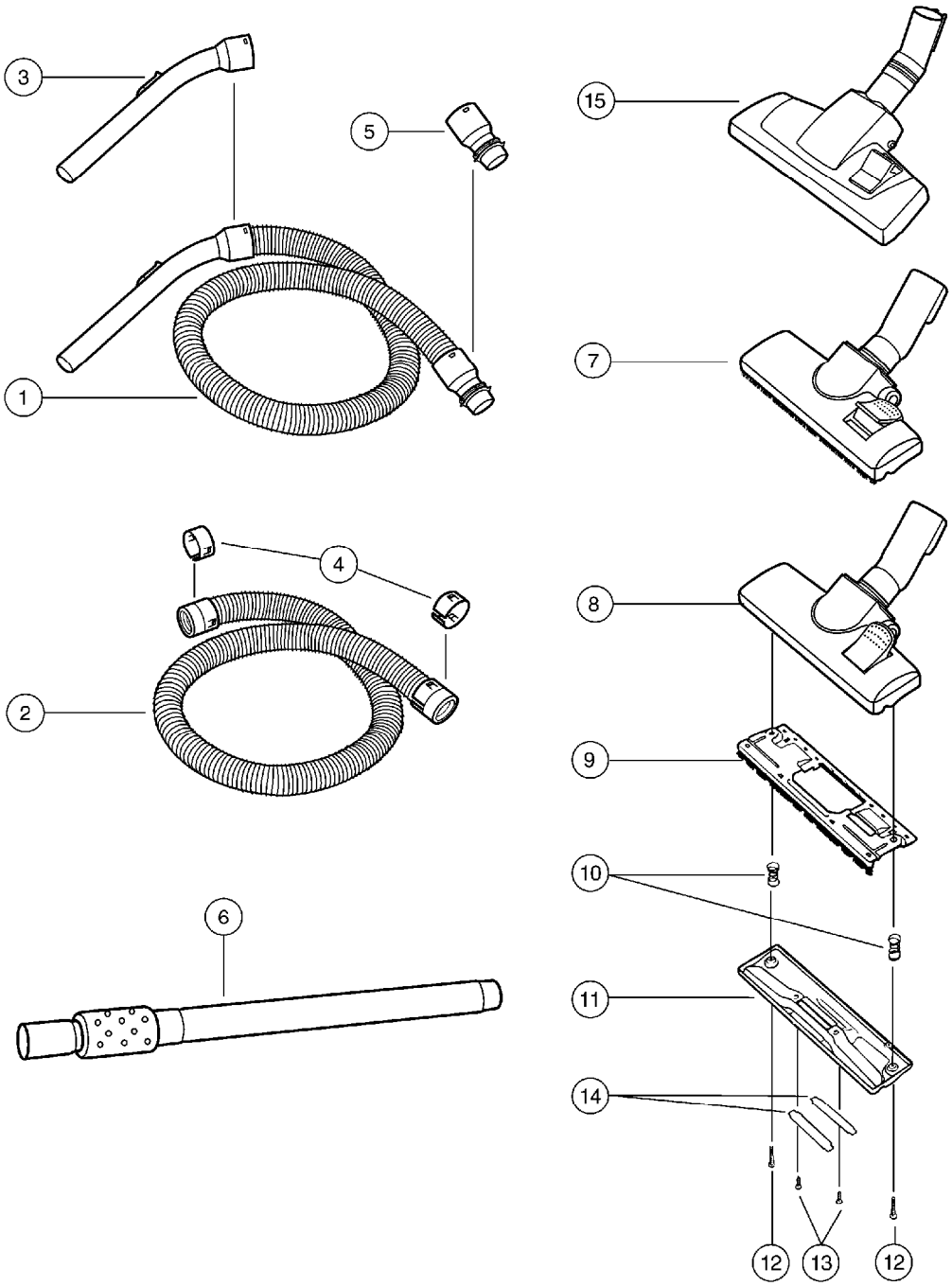


5. PARTS LIST (BODY UNIT)

Ref. No.	Part No.	Part Name & Description	Remarks
1	AMC8C99AM0Z8	Lower body ass'y	MC-E8001 / Light blue colour
1	AMC8C99AM077	Lower body ass'y	MC-E8001 / Red colour
1	AMC8C99AN0E4	Lower body ass'y	MC-E8003 / Light green colour
1	AMC8C99AN0A4	Lower body ass'y	MC-E8003 / Dark blue colour
2	AMC8R01AM061	Wheel	MC-E8001
2	AMC8R01AN061	Wheel	MC-E8003
3	AMC8R99AM061	Caster	
4	AMC8T12AM000	Suction packing	
5	AMC8A73AM061	Accessory support	
6	AMC8A97E1034	Dusting brush	
7	AMC8A13E1034	Crevice nozzle	
8	AMC8E99AM000	Motor 230-240V~50Hz	
9	AMC8EY0AM000	Carbon brush	
10	AMC8E14AM000	Thermal cut-out	
11	AMC8E08AM000	Front motor support	
12	AMC8E09T0000	Rear motor support	
13	AMC8E10AM000	Motor cover	
14	AMC8E91AM000	Power control circuit	
15	AMC8B42AM000	Fuse 12A	
16	AMC8E69AM000	Rotary potentiometer	
17	AMC8E01AM000	ON/OFF Switch	
18	AMC8E21AM000	Potentiometer supplement	
19	AMC8P2201000	Spring	
20	AMC8PZ1AM000	Cord reel unit	Applied to UK and Ireland
21	AMC8P88AM000	Cord reel unit	Applied to Switzerland
22	AMC8PZ3AM000	Cord reel unit	Applied to Australia, New Zealand
23	AMC8P97AM000	Cord reel unit	Applied to East & West European countries, except the above.
24	AMC8P90Y1000	Cord reel	
25	AMC8P93W5000	Rail base unit	
26	AMC8EZ1AM000	Main supply cord	Applied to UK and Ireland
27	AMC8E98AM000	Main supply cord	Applied to Switzerland
28	AMC8EZ3AM000	Main supply cord	Applied to Australia, New Zealand
29	AMC8E97AM000	Main supply cord	Applied to East & West European countries, except the above.
30	AMC8P01AM000	Cord reel support	
31	AMC8P99AM000	Contact spring unit	
32	XTN4+16K	Tapping screw	
33	AMC8P96AM000	Brake lever unit	
34	AMC8P2201000	Spring	
35	AMC8C01AM0Z8	Upper body	MC-E8001 / Light blue colour
35	AMC8C01AM077	Upper body	MC-E8001 / Red colour
35	AMC8C01AM0E4	Upper body	MC-E8003 / Light green colour
35	AMC8C01AM0A4	Upper body	MC-E8003 / Dark blue colour
36	AMC8T11AM0Z8	Frontal cover	MC-E8001 / Light blue colour
36	AMC8T11AM077	Frontal cover	MC-E8001 / Red colour
36	AMC8T11AM0E4	Frontal cover	MC-E8003 / Light green colour
36	AMC8T11AM0A4	Frontal cover	MC-E8003 / Dark blue colour
37	XTN4+18B	Tapping screw	
38	AMC8F18AM000	Central filter support	
39	AMC8T21AM000	Supplement filter support	
40	AMC8F03AM000	Central filter	
41	AMC8I07L1000	Valve	
42	AMC8I09AM000	Valve spring	
43	AMC8I22P1064	Valve support	
44	AMC8T14AM061	Switch pedal	

Ref. No.	Part No.	Part Name & Description	Remarks
45	AMC8T13AM061	Cord reel pedal	
46	AMC8P2201000	Spring	
47	AMC8C22AM061	Upper body cover	MC-E8001
47	AMC8C22AN061	Upper body cover	MC-E8003
48	AMC8T57AM061	Handle	
49	XTN4+18B	Tapping screw	
50	AMC8F28AA000	Clean air filter (electrostatic)	MC-E8001
51	AMC8F18R8000	Clean air filter support	MC-E8001
52	AMC8S04W5000	Clean air filter HEPA (Type F-2H)	MC-E8003
53	AMC8T07AM0Z8	Exhaust cover	MC-E8001 / Light green colour
53	AMC8T07AM077	Exhaust cover	MC-E8001 / Red colour
53	AMC8T07AM0E4	Exhaust cover	MC-E8003 / Light blue colour
53	AMC8T07AM0A4	Exhaust cover	MC-E8003 / Dark blue colour
54	AMC8TZ0AM061	Dust compartment ass'y	MC-E8001
54	AMC8TZ0AN061	Dust compartment ass'y	MC-E8003
55	AMC8T58AM001	Dust compartment	MC-E8001
55	AMC8T58AN001	Dust compartment	MC-E8003
56	AMC8C20AM061	Dust compartment door	
57	AMC8TZ1AM061	Dust compartment cover kit	
58	AMC8T82AM061	Dust compartment cover unit	
59	AMC8FZ2AM070	Pre-filter unit	
60	AMC8S86AA000	Dust compartment filter kit	
61	AMC8F39AA000	Main filter A	
62	AMC8T81AA037	Main filter B	

6. EXPLODED VIEW (ATTACHMENTS)



7. PARTS LIST (ATTACHMENTS)

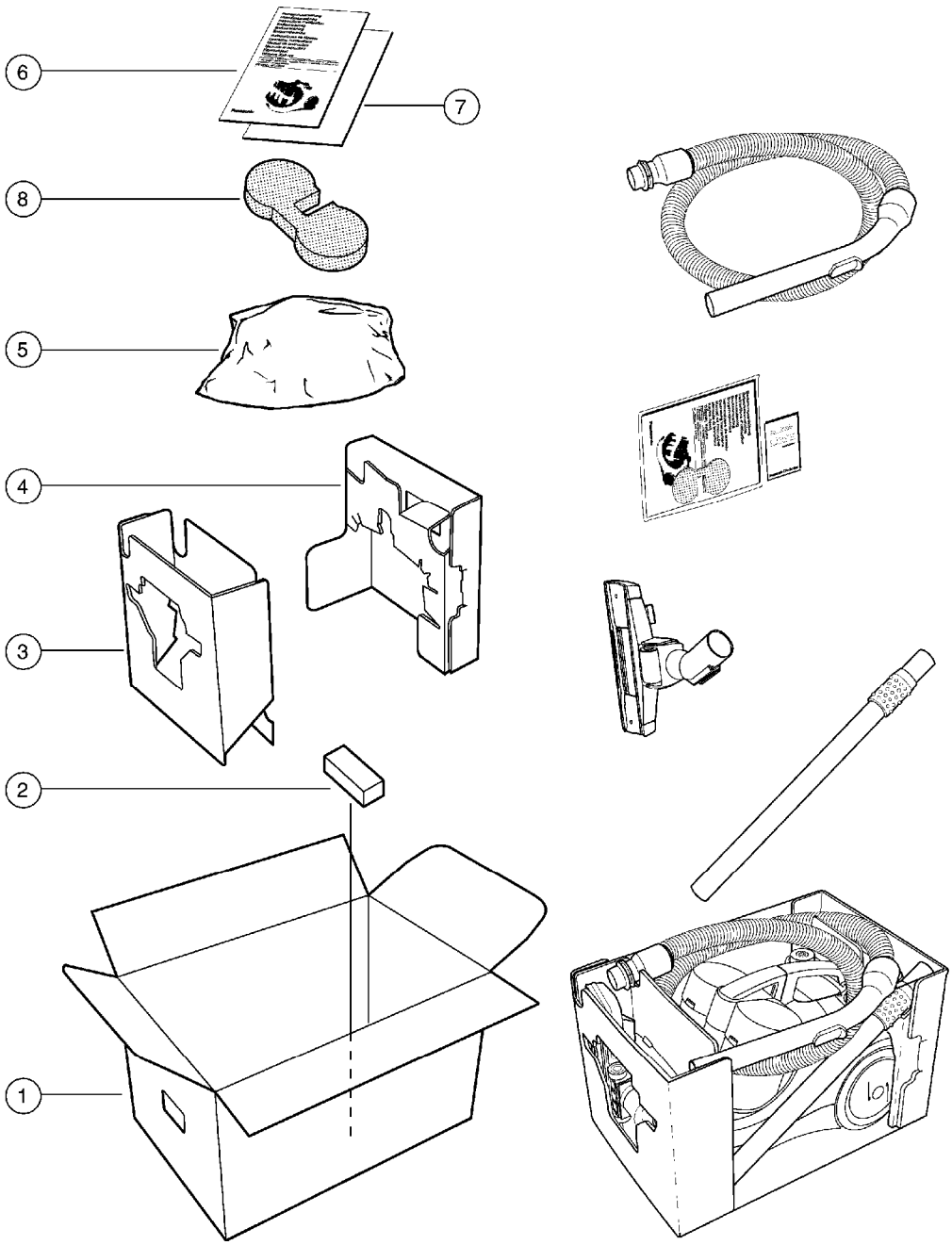
Ref. No.	Part No.	Part Name & Description	Remarks
1	AMC8A92AM034	Hose ass'y	
2	AMC8A01AM034	Hose	
3	AMC8A94Y1034	Curved tube ass'y	
4	AMC8A1125034	Hose holder	
5	AMC8A0281034	Connection pipe	
6	AMC8A85AM000	Telescopic wand	
7	AMC8A99AM034	Floor nozzle RD-262	MC-E8001
8	AMC8A90AM034	Floor nozzle cover	MC-E8001
9	AMC8A89D1000	Floor nozzle brush	MC-E8001
10	AMC8A36D1000	Floor nozzle spring	MC-E8001
11	AMC8A39AM000	Floor nozzle base plate	MC-E8001
12	XTN35+25BFY	Tapping screw	MC-E8001
13	XTN35+14BFY	Tapping screw	MC-E8001
14	AMC8A41D1000	Linen retake	MC-E8001
15	AMC8A99AN034	Floor nozzle RD-270	MC-E8003

8. TROUBLE SHOOTING GUIDE

CONDITION	CHECKPOINT	METHOD OF INSPECTION	CAUSE / REMEDY
Motor fails to rotate (no noise is heard at all)	Power supply cord	Check power supply cord continuity.	If there is no continuity, replace the power supply cord.
	Fuse (Plug for UK only)	Check plug fuse continuity.	If there is no continuity, replace the fuse.
	Main fuse (250V, 12 A)	Check fuse continuity.	If there is no continuity, replace the fuse.
	Motor continuity	Check motor continuity between carbon brush holder tabs.	If there is no continuity, replace the motor.
	ON/OFF Switch	Check continuity across switch connections.	If there is no continuity, replace ON/OFF Switch.
	Thermal cut-out	Check continuity across thermal cut-out tabs.	If there is no continuity, replace thermal cut-out.
	Triac	Check if the triac is in open circuit.	If it is in open circuit, replace power control circuit.
	Power control circuit	Check if the diac is in open circuit.	If it is in open circuit, replace power control circuit.
	Rotary potentiometer	Check if the potentiometer is in open circuit.	If it is in open circuit, replace rotary potentiometer.

CONDITION	CHECKPOINT	METHOD OF INSPECTION	CAUSE / REMEDY
Motor runs but there is no suction	Hose or Suction inlet	Check if there is any blockage in the hose or suction inlet.	If there is any blockage, remove it.
	Dust compartment / Filters	Check if dust compartment is full or there is dust accumulated in the filters.	If dust compartment is full, empty it.If the filters are dirt of dust , clean them out or replace .
Noise or vibration	Motor fan	Check dust accumulated in motor fan (it could happen if the vacuum cleaner has been used without central filter).	If there is dust accumulated in the moto fan, replace the motor and check filter conditior (never try to dismantle the motor fan)
Motor does not change power (runs always at full speed)	Rotary potentiometer	Check if the potentiometer is short-circuited.	If it is short-circuited, replace power control circuit.
	Power control circuit	Check if power control circuit is short-circuited.	If it is short-circuited, replace it.
Motor runs irregularly	Rotary potentiometer	Check possible bad contact of rotary potentiometer.	If there is bad contact, replace power control circuit.

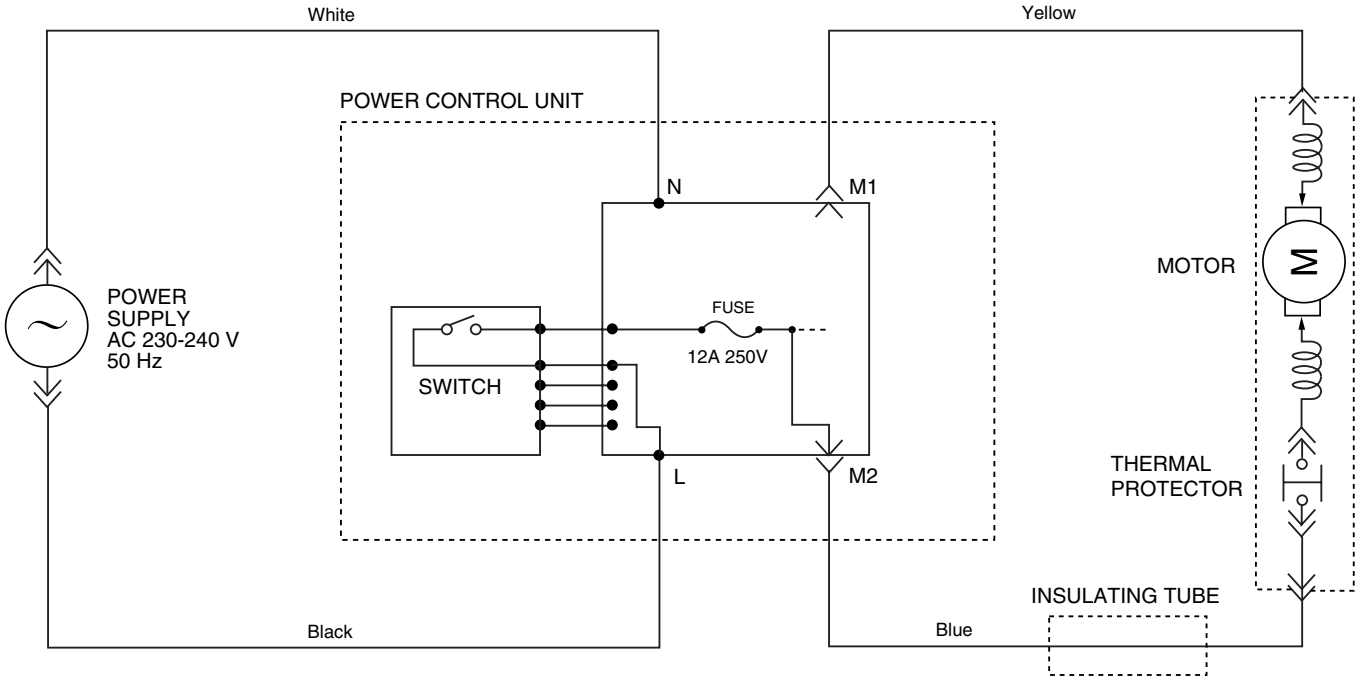
9. PACKING INSTRUCTIONS



10. PACKING LIST

Ref. No.	Part No.	Part Name & Description	Remarks
1	AMC8Z01AM000	Carton box	MC-E8001
1	AMC8Z01AN000	Carton box	MC-E8003
2	AMC8Z09J2000	Cushion supplement	
3	AMC8Z02AM000	Cushion A	
4	AMC8Z03AM000	Cushion B	
5	AMC8Z05Y1000	Set cover	
6	AMC8Z07AM070	Operating instructions	Languages: German, Dutch, French, Swedish, Norwegian, Danish, Spanish, English, Portuguese, Italian, Finish and Greek.
6	AMC8Z07AM090	Operating instructions	Language: English (UK)
6	AMC8Z07AM010	Operating instructions	Languages: Russian, Bulgarian, Czech, Polish, Romanian and Hungarian.
7	AMC8Z62AM070	Main filter sheet	Languages: German, Dutch, French, Swedish, Norwegian, Danish, Spanish, English, Portuguese, Italian, Finish and Greek.
7	AMC8Z62AM090	Main filter sheet	Language: English (UK)
7	AMC8Z62AM010	Main filter sheet	Languages: Russian, Bulgarian, Czech, Polish, Romanian and Hungarian.
8	AMC8F39AA000	Main filter A	

MODELS MC-E8001 / MC-E8003



MODELS MC-E8001 / MC-E8003